BR-225/30/6/17

SBR- 79/17-18
dt- 30/6/17

354601

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. 1st and Final Bill

Name of Work Emergency water supply to drilling of borewell, Erection of pump under

Name of Contractor of nature of Agency ... From ... To ... in Sahakaranagara Park ward no. 8. Kodigehalli

Date of commencement of work Sub-Division.

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Est. cost:- Rs. 4,99,000/-						
	Job code no:- 008-14-000044						
	AS/ no:- Addl. comm (Y)/Adm/ 5/10/2013-14, Dt:- 23/10/2013						
	TS/ no:- EE (BTP)/ TS/257/2013-14, Dt: 23/12/2013.						
	Work order no:- EE/ BTP/ KRIDL/ W.O/ 568/ 2013-14, Dt: 28/02/2014.						
	Agency:- KRIDL (W)						
	Date of commence:- 04/01/2017						
	Date of completion:- 22/4/17						

.S.

0X354700
Devas.

Engineer
Division
Bore-32.
22/4/17

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1)	Geophysical investigation of site for siting borewell for supplying drinking water to the habitation either through the hand pump M.B.S or P.W.S.S by vertical electrical sounding by adopting gamma or schlumberger method, including reconnaissance survey of geophysical formation geophysical investigation of existing ground water in the vicinity the quality, and acceptability of the same, indicating the location the location of site, recommended depth of 1.0 mtr, in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped. Probable yield and other information required including transportation and accomm. to work site. engaging technical personnel and labour required, etc., = Qty vide premeasurement ref MB No: 2583/14-15 Page No: 25827 3						

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency ...

Date of commencement of work .....

Date	Full description, etc, of work
1	2
2)	siting borewell of 165 capacity 250 PSIG including our burden with necessary, cutting and supporting vehicle, crew including yield testing compression for an hour = Qty

Reference to last Measurement 8
supplying hand pump adopting gamma geophysical in the vicinity locating the related fracture and to cover full and settle in- cluding etc.
2583/14-15

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354602

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1.00	NO	Qty 1957.50/NO		Rs.	1957.50
4	Sinking borewell of 165mm dia clear using rotary type hydraulic rig of capacity 250 PSIG no. about 900 CFM and above in all strata in- cluding our trucks upto 20m. supply of casing pipe collar and cap with necessary cutting and threading. including transporting of rig & and supporting vehicle, crew charges, and cost of consumables. etc. complete in- cluding yield testing at the final depth with a minimum work in the compressor for an hour. (excluding cost of casing pipe collar cap etc)						
	= Qty vide Premeasurement ref MB NO: 2583/14-15						

Page NO: 258273/2

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
(a)	0.00 to 50.0 mtrs. =	50.0	Meter	Rs.	295.61/	Meter Rs.	14781.0
(b)	50.0 to 100.0 mtrs =	50.0	Meter	Rs.	390.37/	Meter Rs.	19519.0
(c)	100.0 to 150.0 mtr =	50.0	Meter	Rs.	434.66/	Meter Rs.	21733.0
(d)	150.0 to 200.0 mtr =	50.0	Meter	Rs.	477.92/	Meter Rs.	23896.0
(e)	200.0 to 250.0 mtr =	50.0	Meter	Rs.	528.39/	Meter Rs.	26420.0
(f)	250.0 to 300.0 mtr =	15.0	Meter	Rs.	566.50/	Meter Rs.	8498.0
	Additional						
(a)	20.0 to 30.0 mtr =	10.0	Meter	Rs.	44.34/	Meter Rs.	443.0

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency

Date of commencement of work .....

Date 1	Full description, etc, of work 2
	above 30.0 mtr
(b)	Above 30.0 mtr
3)	supplying of ISI ma grade of steel FE 41 2001 and latest amen conforming to IS 1387/19 basic oxygen process in conforming to IS 554/19

Contents 7	Reference to last Measurement 8
/Rmtr Rs.	14781.00
/Rmtr Rs.	19519.00
/Rmtr Rs.	21733.00
/Rmtr Rs.	23896.00
Rmtr Rs.	26420.00
Rmtr Rs.	8498.0
Rs.	443.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354603

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	above 30.00 mtr =	20.00	Rmtr	Rs. 88.68/Rmtr		Rs.	1774.00
	(b) Above 30.00 mtr =	11.00	Rmtr	Rs. 117.11/Rmtr		Rs.	1288.00
	3) supplying of ISI marked 175 mm nominal bore plain end steel casing pipe - grade of steel PE 410 of wall thickness 5.4 mm thick conforming to IS 4270: 2001 and latest amendments, electric resistance welded steel tube materials and conforming to IS 1387/1993 and manufactured by basic oxygen heating electric or basic oxygen process in random length of 5 to 7 mtrs., both end threaded conforming to IS 554/1985. one end fitted with socket conforming to IS						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	42 to 1:200 and the other end with screw pitch. all pitch shall be reasonably free from defects. the tube shall be reasonably straight should be with ISI marking. weighing 25.100 kg/mtr (excluding of all taxes and duties) price including collar - medium duty.						
	= qty vide premeasurement ref MB No. 2583/14-15 page no. 28 & 29						
		58.0	mtr	Rs. 1325.0/mtr			Rs. 76,850.0
4)	providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (except those in trenches & to be measured and paid for separately) including cost of all material, labour, charges, HOM of equipments and testing						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	specification
	=
5)	providing 175mm
	=
6)	providing 175mm

Contents 7	Reference to last Measurement 8
pipes. all pipes shall be reasonably 25.10 kg/mtr including collar-medium	
no. 2583/14-15	
tr Rs. 76,850.00	
with all fittings all fittings (each for separately) including equipments and testing	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354604

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	specification = Qty vide premeasurements ref ~~MB~~ MB no. 2583/14-15 page no: 258274/2	260.00 Rmtr			Rs. 298.92/Rmtr	Rs. 77719.00	
5)	providing 175mm dia MS collar. = Qty vide premeasurements ref MB no: 2583/14-15 page no: 258274/2	10.00 Each			Rs. 150.00/each	Rs. 1500.00	
6)	providing 175mm dia MS cap						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	8	6	7	8
	Qty vide premeasurement ref MB No: 2583/14-15 page no: 258-274/2						
		1.00	each			Rs. 100.00/each	Rs. 100.00
7)	supplying and drawing 3 core flat PVC sheathed submersible pump cable, manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS: 8130-1984 and virgin grade PVC insulation and PVC coating extruded PVC sheathed suitable for working voltage upto 1100 volts.						
	= Qty vide Premeasurement ref MB No: 2583/14-15 page no: 258-274/2						
		520.00 Mtr				Rs. 151.00/mtr	Rs. 78520.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Age
Date of commencement of work .....

Date	Full description, etc, of wor
1	2
8)	Supply and delive (Totalauto / clam) in 150mm dia. pump class, coupled speed, totally, enc type) squirrel cage, 3Ph, 50 Hz, 380/ at motor. carry tric complete the pump and reqd fittings 15

ntents 7	Reference to last Measurement 8
MB No: 2583/14-15	
4/2	
Rs. 100.00	
submersible pump. with flexible table, 3 class. 5 of and Pocoder lay voltage upto	
No: 2583/14-15	
2	
Rs. 78520.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354605

Serial No. ..... From..... To.....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	8) Supply and delivery ex stk brand new technos / ismail / lubi / sabar / Utalanta / cdam / watermans / Radha make suitable, vertical installation in 150mm dia. borewell, comprising of single stge or multistage CF pump class, coupled by means of standard steel coupling, to suitable speed totally enclosed and filled with pure drinking water (wet type) squirrel cage, submersible induction motor suitable for operation of 3Ph, 50 Hz, 380/440 volts AC supply fitted with reqd. accessories such as suction cum delivery strainer, foot valve non-return valve etc. complete the pump and motor shall form an integral unit with all the reqd fittings 15 HP, 30 stge, ~~50~~ Qty vide Premeasurement ref MB. 2583/14-15					

Page No: 258275

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1.00	NO		Rs. 52000.00	/ NO	Rs. 52000.00
9)	Supplying and delivering at site brand new star / sun / lotus - sun / Adharsh / GK control panel board unit of size 1200x 600 x 350 mm minimum, mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3ph, 50 Hz, 380/440 volts AC supply with spring loaded latch locking device with alloy ribs should be provided inside the door, canopy, apron and lamp ventilation shall be provided the combined energy meter cum control panel board unit suitable for operation on 3ph, 50 Hz 380/440 volts AC supply shall be complete etc., complete the panel board shall be constructed etc. complete the panel board shall be fabricated on single unit in the above compartment, panel board for suitable purpose with star delta starter						

Serial No. .....
Name of Work .....
Name of Contractor of nature
Date of commencement of wo

Date	Full description, etc.
1	2
	and door type
10)	supply and fi
	lengthwise 15mm
	outer end fixing

Contents 7	Reference to last Measurement 8
/No	Rs. 52000.00
star / sun / lotus -	
unit of size 1200x	
vein air water	
dom. suitable for	
supply with spring	
ibs, should be provided	
ventilator shall be	
panel board with	
1th AC supply shall be	
be constth etc. complete	
with in the above	
with star delta starter	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354606

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	air door type 10HP to 15 HP.	1x1				= 1.00 / 1.00 each	
				Rs. 10000.00			Rs. 10000.00
	10) supply and fixing 500 x 500 x 65mm polished wood board made of wh						
	less than 15mm thick interior plywood and provided for sliding air						
	outlet and fixing the same of the value using through bolts and nuts	1x1				= 1.00 / 1.00 each	
				Rs. 275.00			Rs. 275.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
11)	supply 1.1 KV class Cu cable from nearest BSCOM pole to Panel board including earth work and road restoration Core 16 sqmm.	1×1	15.35			= 15.35 15.35 mtr Rs. 150.0/mtr Rs. 2302.0	
12)	Labour charges for laying of 1.1 KV class Cu cable when supplied by agency in existing trench GI pipe / stone pipe / on wall / on pole as required.	1×1	25.0			= 25.0 25.0 mtr Rs. 5.0/mtr Rs. 125.0	
13)	Supplying & fixing of Porcelain, tem, channel with cut out on						

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agen

Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Existing wooden / Pa complete
14)	supplying and fi make including cost all load, complete as For new borewell. Existing borewell

BOOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
m		measur BSCON pole to	
		and road restoration 4	
		= 15.35	
		15.35 mtr	
150.0 / mtr		Rs. 2302.0	
		clay or cell earth supplied	
		fill / stower pit / on wall /	
		= 25.0	
		25.0 mtr	
/ mtr		Rs. 125.0	
		clearing with cut out on	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354607

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	existing wooden / panel	single	single	single	both	and	washing, etc
	complete	2x1				= 2.0	
						2.0 each	
			Rs. 219.0 / each			Rs. 438.0	
14)	supplying and fixing 50mm non-return valve of vertical type of approved						
	make including cost of all materials labour and TOM of equipments with						
	all lead, complete as per specification						
	For new borewell	1x1				= 1.0	
	Existing borewell =	2x1				= 2.0	
						3.0 Nos	
			Rs. 1530.0			Rs. 4590.0	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
15)	supplying and fixing MCB distribution board complete as required.	1x1				= 1.00 1.00 each Rs. 1075.00	Rs. 1075.00
16)	BESCOM deposit charges.						= 9500.00
17)	cutting of road surface for pipeline trench and disposing of the excavated stuff as directed including barricading charges. hoisting sly. in the cement concrete road. = Qty vide premeasurement ref MB No 2583/14-15 page no: 258-275						

Serial No. .....
Name of Work .....
Name of Contractor of nature of A
Date of commencement of work .

Date	Full description, etc, of
1	2
18)	Earthwork exc lay and electrical width in hard and and sides. 1 edges of excav as per specificatio

OOK

Depth 6	Contents 7	Reference to last Measurement 8
...ls breaking of existing ...xing. mortar and mixing		
	= 1.00	
	1.00 each	
	Rs.	1075.00
	=	9500.00
...ing and disposing of the ...ing damper. lifting lift. in		
...ls ref MB No		2583/14-15
58275		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354608

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1.80 m³		Rs. 497.14/cum		Rs.	895.00
18	Earthwork excavation for foundation of building. water supply sanitary ...ing and electrical conduits either in pits or in trench. 1.5 m. and above in width in hard soil not exceeding 1.5 m in depth including dressing the bottom and side. of pits and trench. stacking. the excavated soil clear from edge of excavation width lead upto 50 m. after breaking of clods. complete as per specification. = Qty vide measurement of MB No: 2583/14-15 page no. 2582-75/2						
		3.60 m³		Rs. 198.22/cum		Rs.	714.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
19)	Providing and installing at site of work PVC pipe including cost of pipe and specials, and labour including lowering into trench, laying true to line level and perfectly inlaying at joints leak proof including jointing of approved type with all labour and lift charge, handling charges including excavating the pipe already to a depth not less than 15 cm, with gravel or selected earth available, from the excavation etc., complete PVC pipe						
	Qty vide provisional reg MB No. 2583/14-15 Page no: 258 275/2	40.00	Mtr	Rate 117.00/Mtr		Rs. 4680.00	
20)	Refilling available earth around pipe line after laying in layers not exceeding 20 cm. in depth compacting each deposited layer by ramming other						

Serial No. .....

Name of Work .....

Name of Contractor of nature of Agency ....

Date of commencement of work .....

Date	Full description, etc, of work
1	2
	watering with lead and labour complete as per = Qty
	30/6/17
21)	Disposal of excavated earth and Qty

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

BOOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
...ouble PVC pipe including ... including lowering into ... perfect levels as south ... type with all labour and ... encasing the pipe around to 4 ... and or selected earth ... complete PVC pipe			
... MB No. 2583/14-15			
... 117.0/ Mtr Rs. 4680.0			
... cellar, in layers not exceeding ... ted layer by ramming other			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354609

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	watering with lead upto 50 m. and lift upto 1.5 m, including cost of all labour complete as per specification.						
	= Qty vide premeasurement ref MB. No: 2583/14-15						
	Page No: 2582-75/2						
	Cable 30/6/17	3.60 m		Dh. 53.0/ cum		Rs. 191.0	
21	Disposal of excavated earth to the final place of disposal with all lead and lift and as directed by the engineer in charge. of the work.						
	Qty vide item no			(17)	=	1.80 m³	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Verified 30/06	1.80m	Rft.	106.85 cum		Rs.	192.00
						Total Rs.	441973.00 4.41973-00
	Add 11% GST Charges					Rs.	48617.00
	Add 1% Third Party Charges					Rs.	4419.00 4.90590-
	Certificate:-					Grand Total Rs.	495011.00
	* work done is satisfactory						
	* all debris clear from the work spot						
	* there are no departmental issues for work to the above work.						
	22/4/17		Assistant Engineer, Kodigehalli Section, Vidyabanka M.P.				

Serial No. BRNO:225/3

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work
1	2
	490 Rs. Four lakh twenty [illegible]

OOK

Depth 6	Contents 7	Reference to last Measurement 8
cum	h.	192.00
	Total h.	~~441975.00~~ 4.41973-00
	h =	48617.00
	h =	~~4419.00~~ 4.90590-
and	Total h	~~495011.00~~
als		
to the	above work.	
	neer,	
	ion,	
	.M.P.!	

BRNo:225/30.6.17

M. A. R. 57 (Rule 116)
Measurement Book

. B

354610

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						Total R:	490590-00
						ST-	9812-00
						VAT-	19624-00
						Cess-	4906-00
						CBF-	491-00
						FSD-	24530-00
						Fine-	5400-00
						Adj-	64763-00
						Chqu:	4,25,827-00

490590-00.
64763-00
425827-00.
Rs: Four lakh twenty five thousand eight hundred twenty seven only.

Krishnappa & Co
Mahadevappa
30/6/17